

FIG. 1

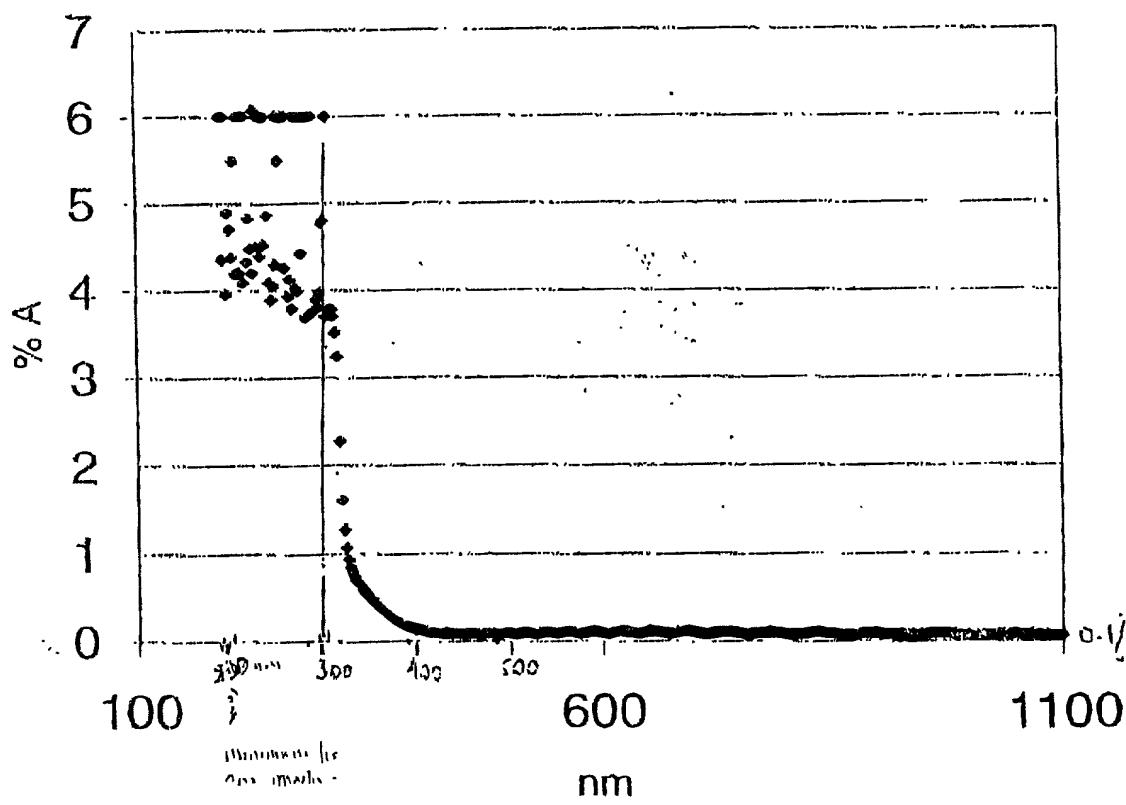


FIG. 2

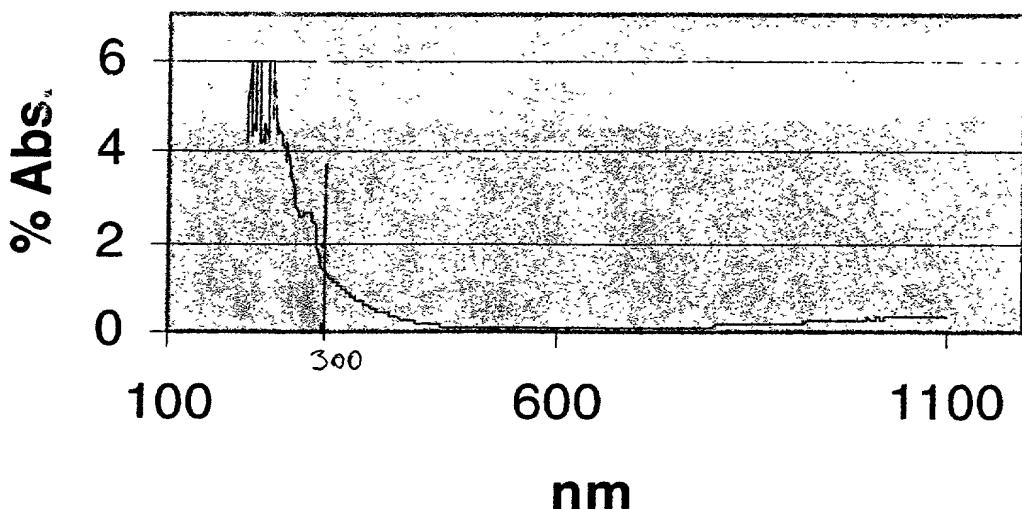


FIG. 3

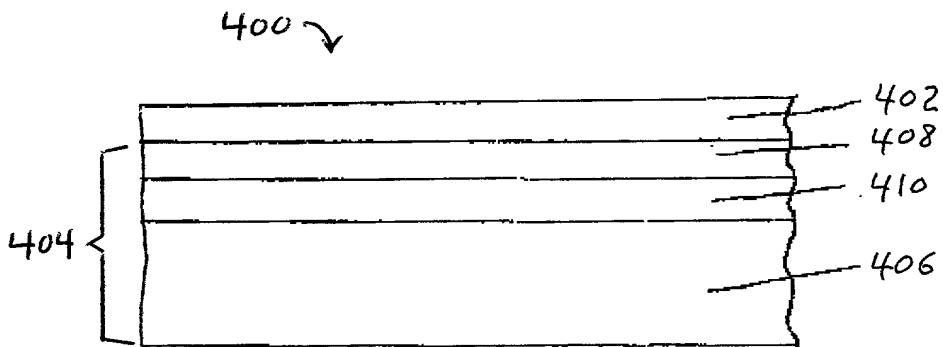


FIG. 4

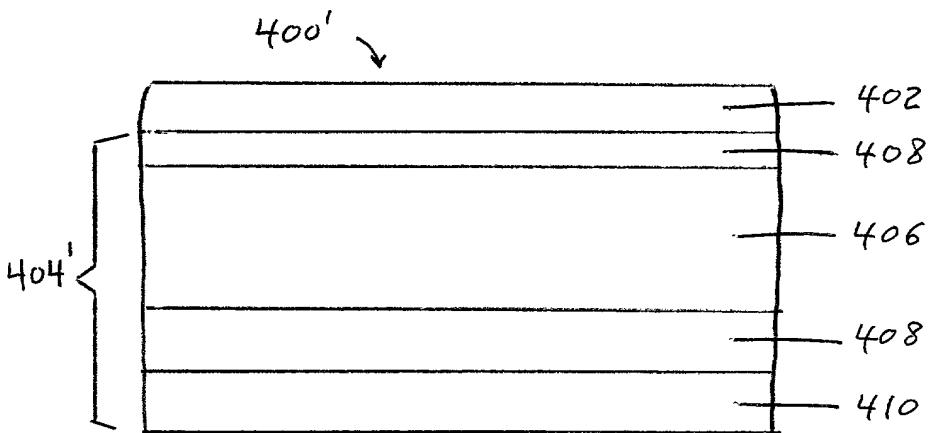


FIG. 5

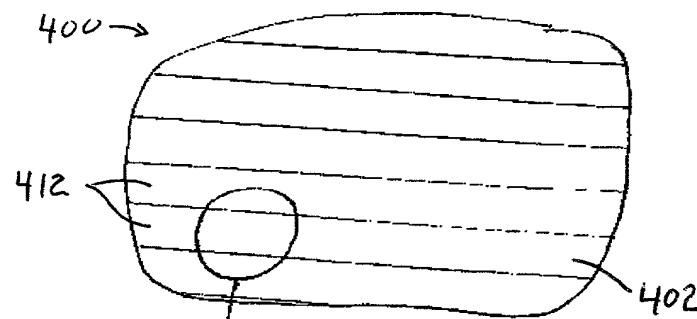
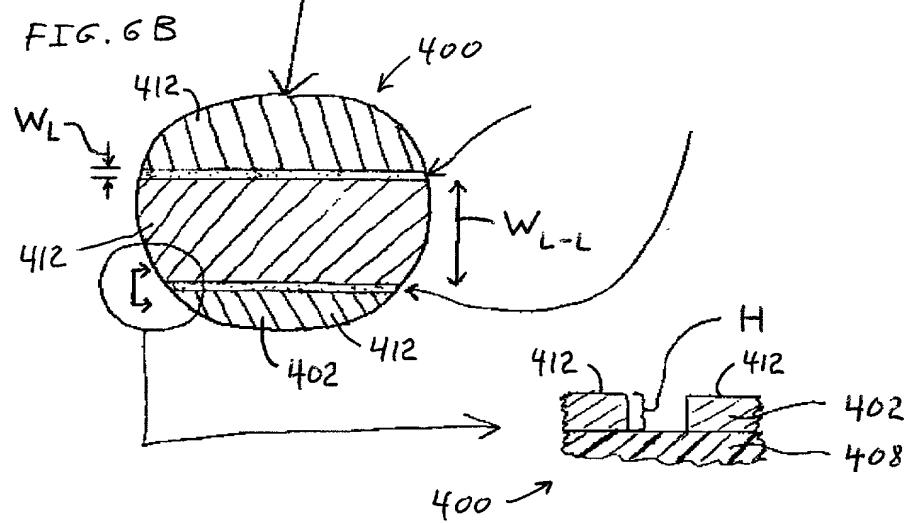
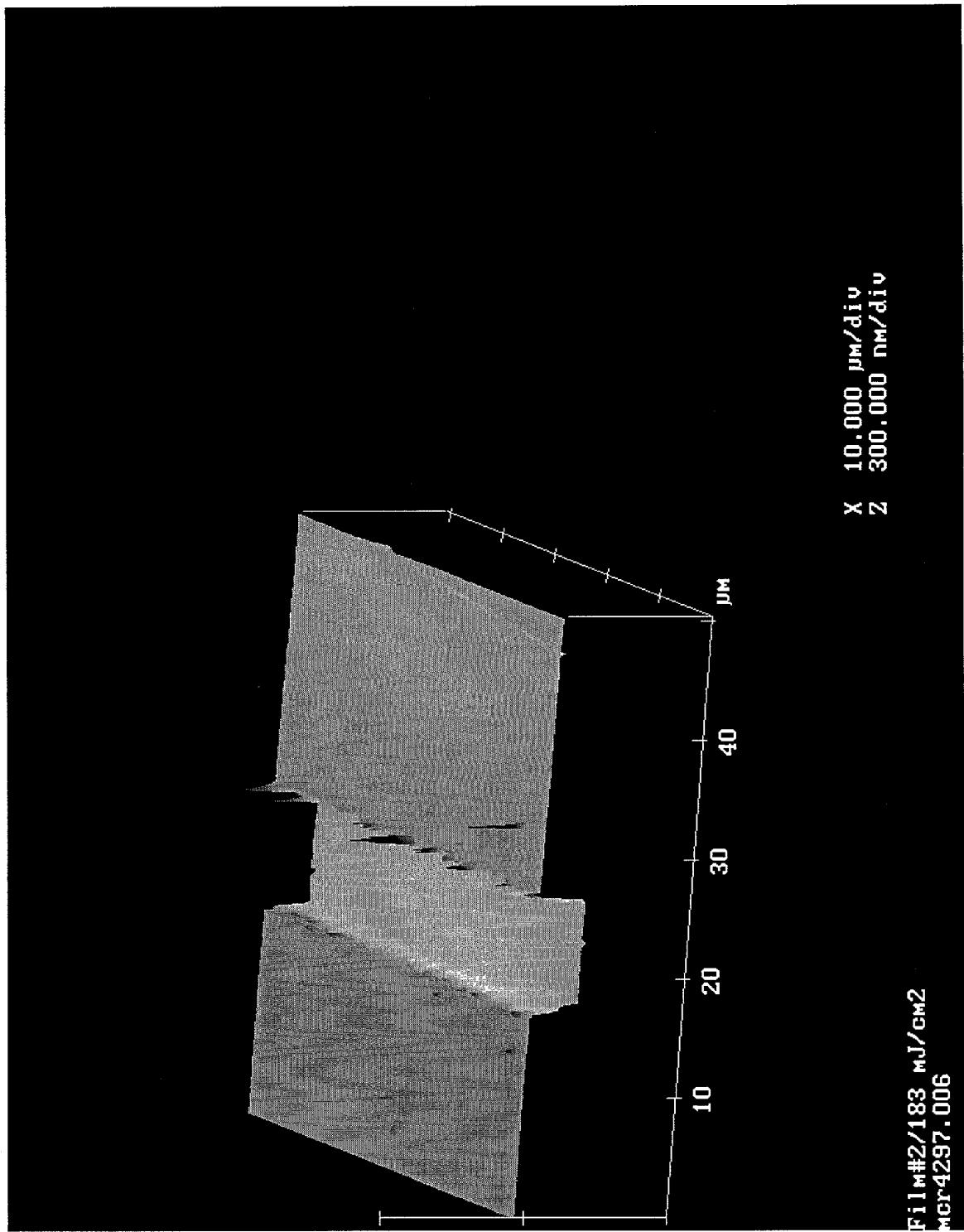


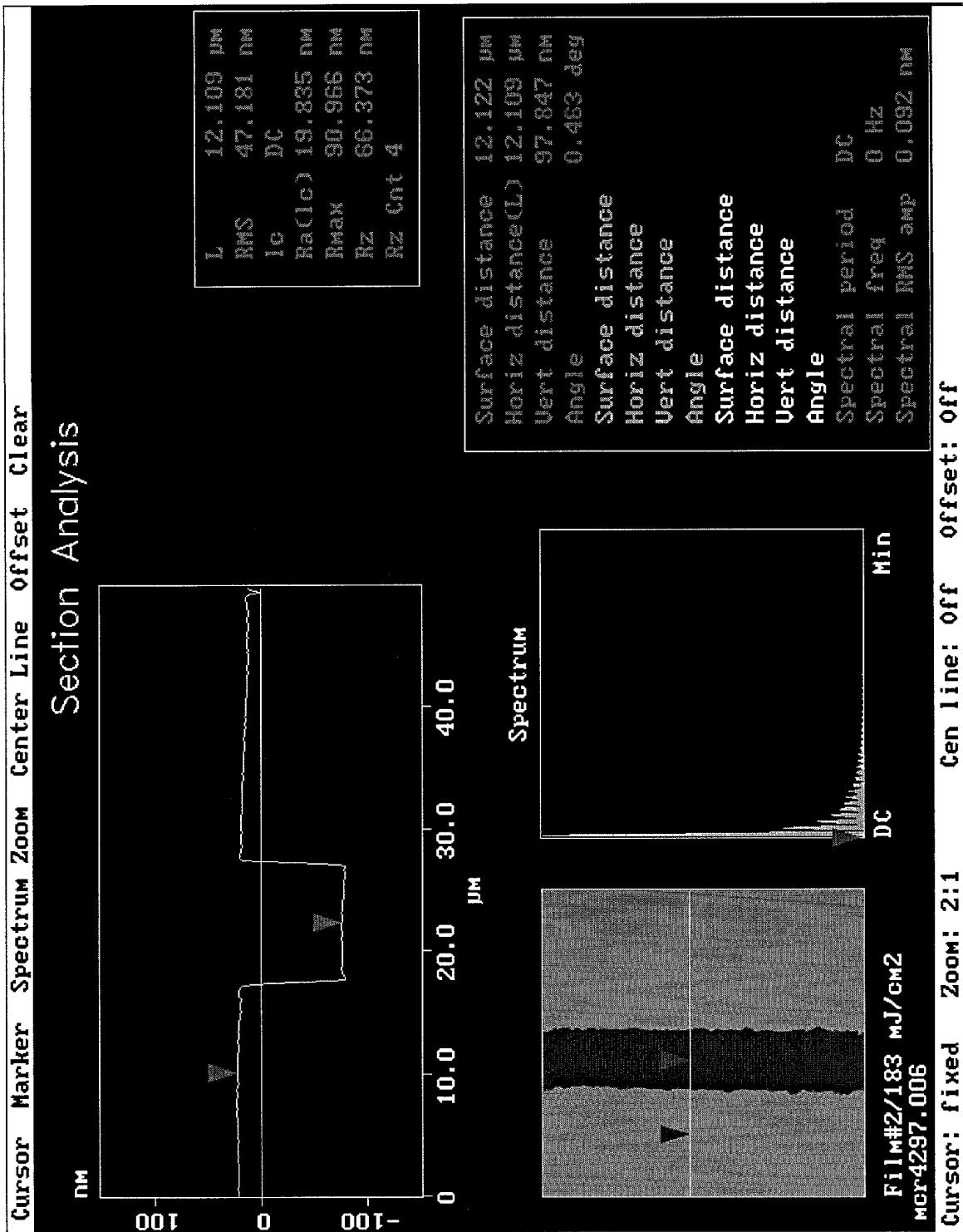
FIG. 6A



micro domain; if region with strong upwelling zone along z-axis, then
is fluid if the fluid region is near the fluid domain, then fluid domain



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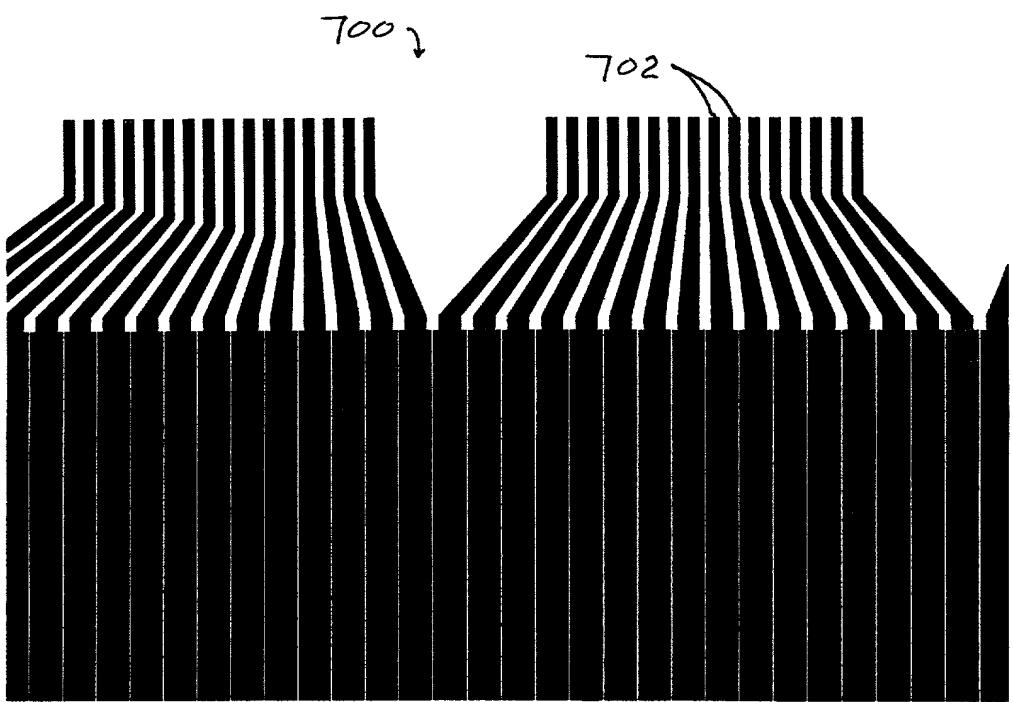


FIG. 7

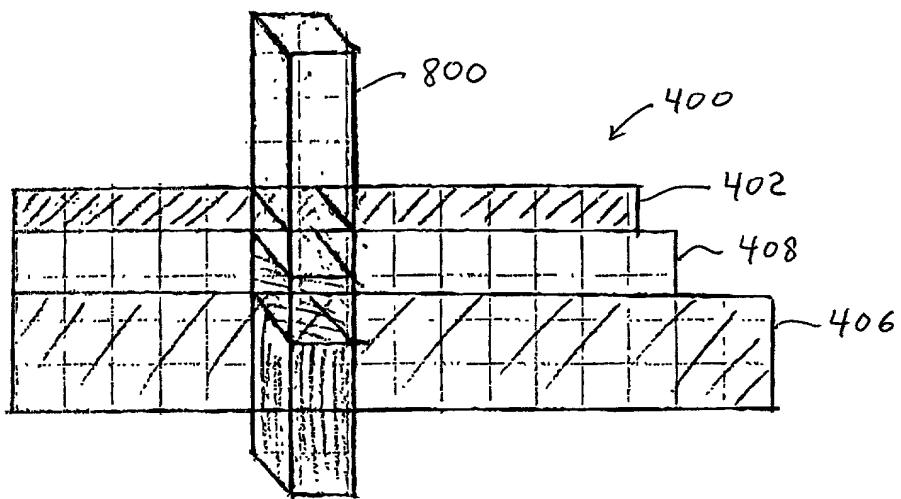


FIG. 8

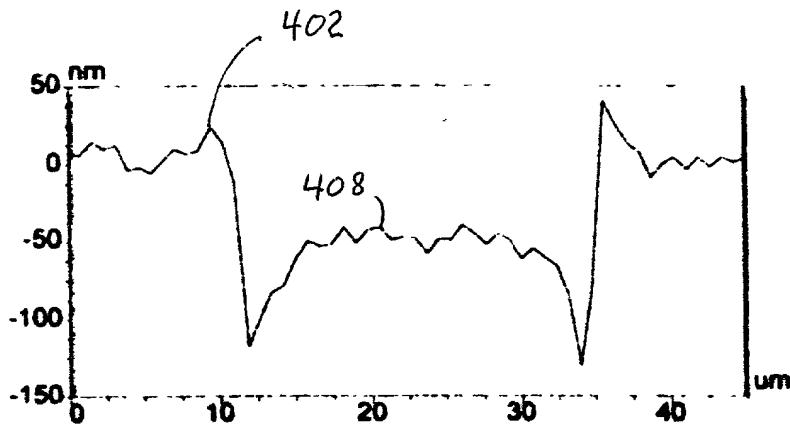


FIG. 9

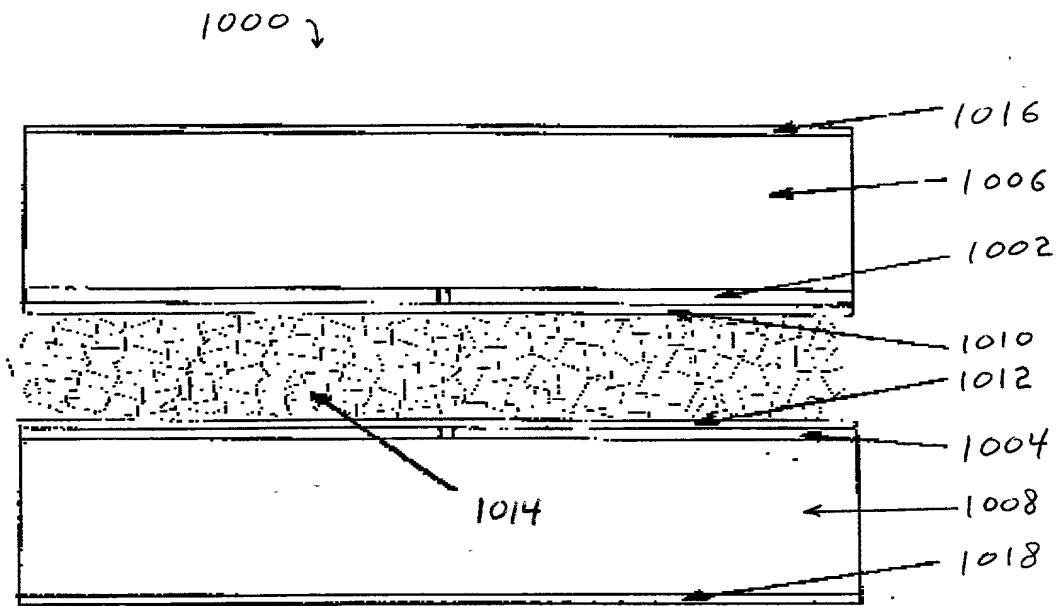


FIG. 10

one stage a number of steps in one stage of the
process will be taken from the same
time period.

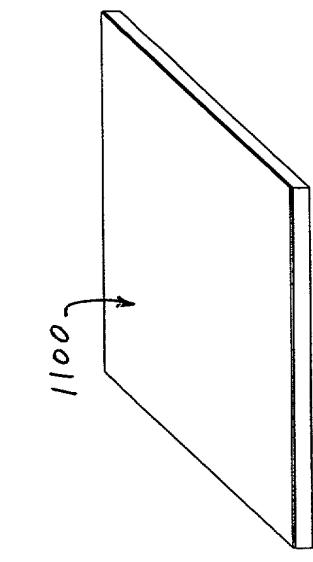


FIG. 11A

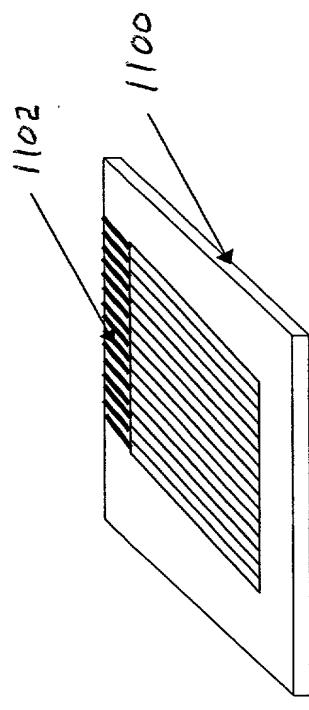


FIG. 11B

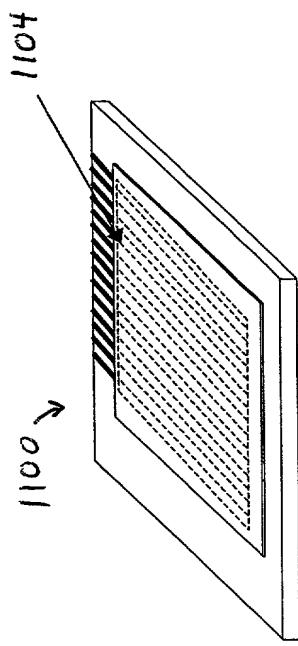


FIG. 11C

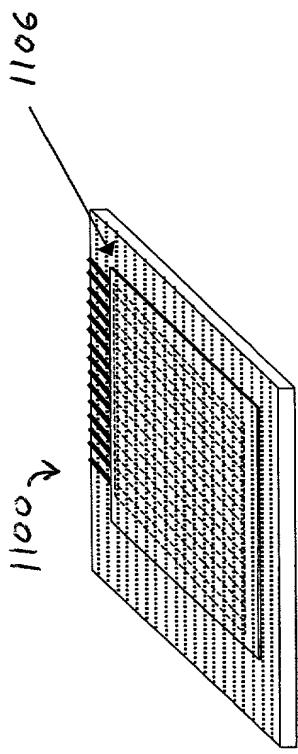


FIG. 11D

FIG. 12A

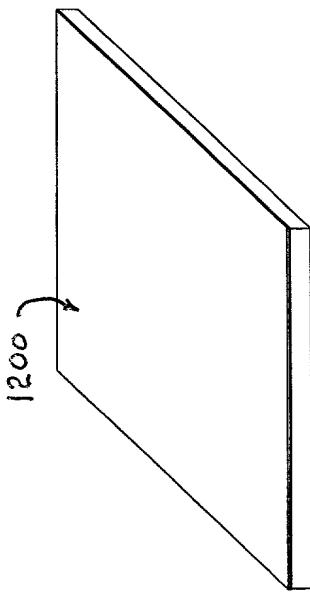


FIG. 12A

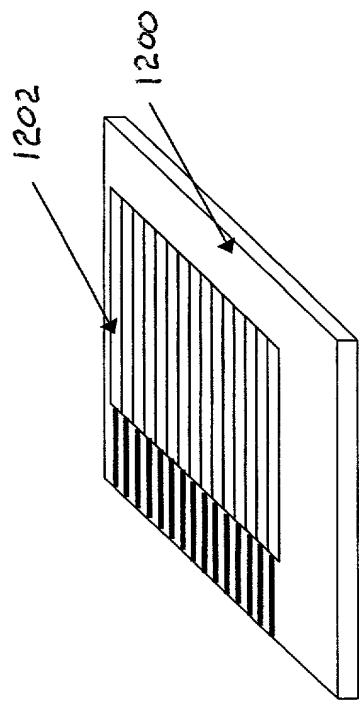


FIG. 12B

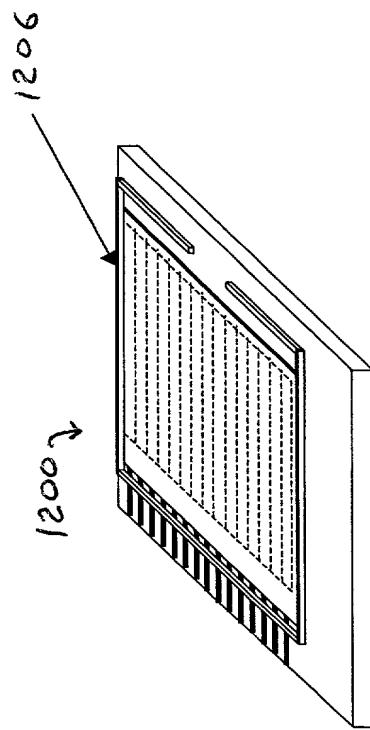


FIG. 12C

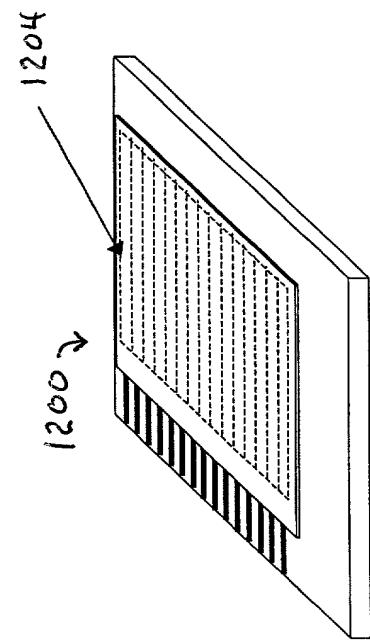


FIG. 12D

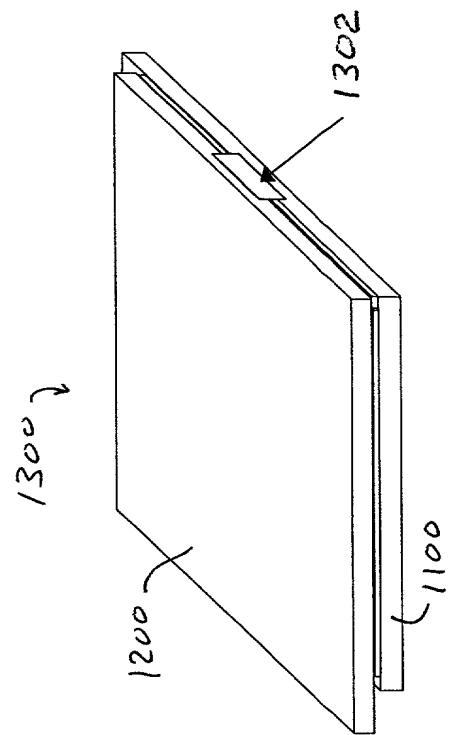


FIG. 13B

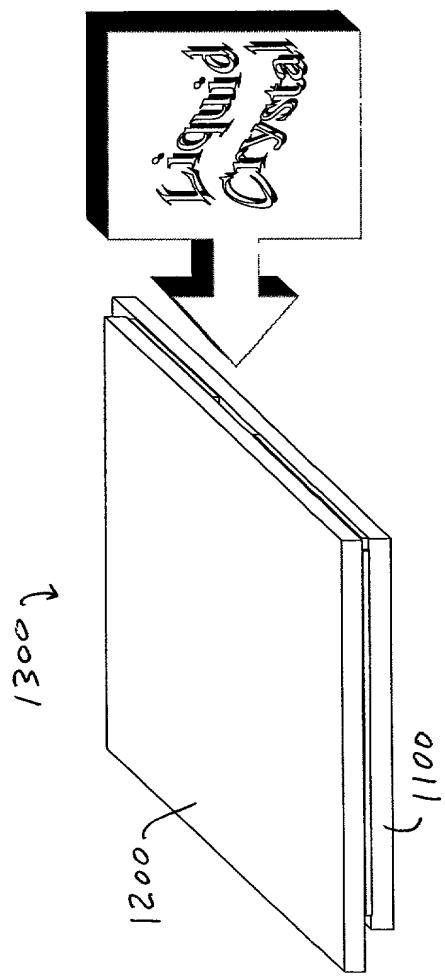


FIG. 13A

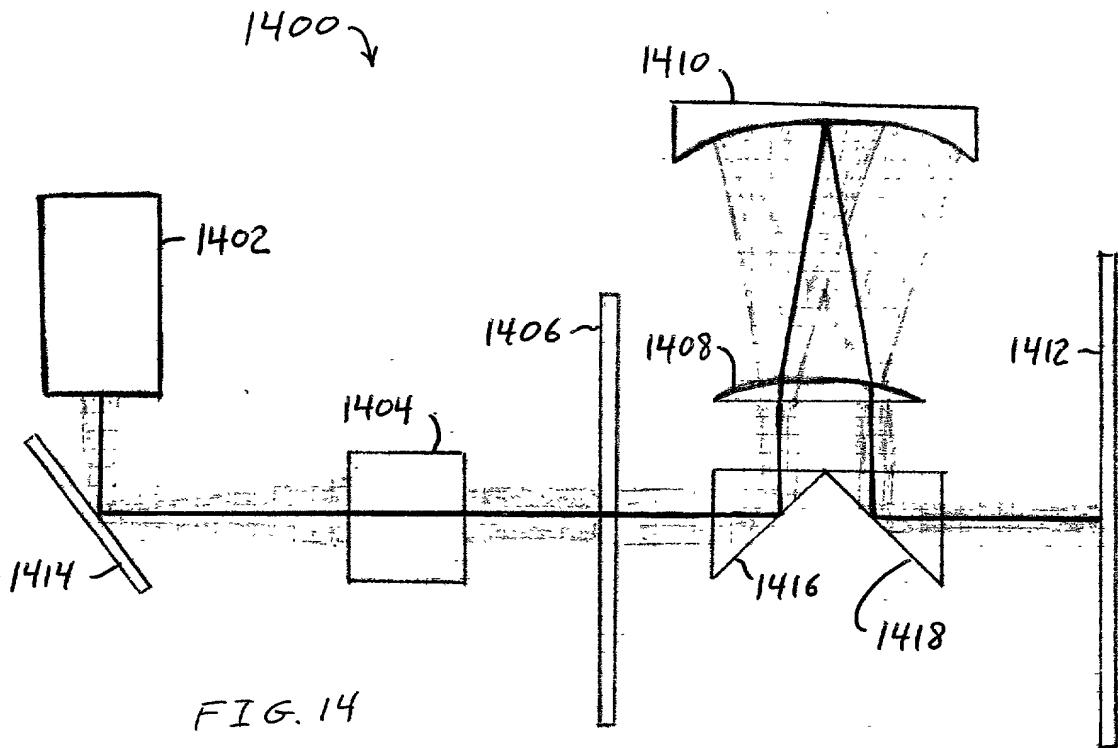


FIG. 14

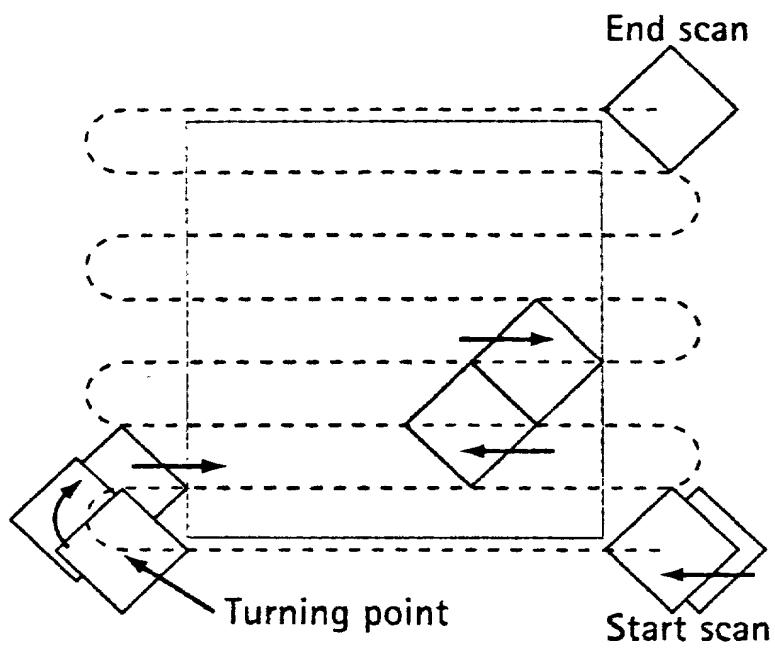


FIG. 15